AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1-21. Canceled
- 22. (Currently amended) An albumin fusion protein comprising two or more tandemly oriented GLP-1 polypeptides, wherein said GLP-1 polypeptides are selected from wild-type GLP-1, GLP-1 fragments, and GLP-1 variants, fused to albumin comprising the amino acid sequence of SEQ ID NO:1038, an albumin fragment, or albumin variant thereof, wherein said albumin fragment or albumin variant increases the serum plasma half-life of the unfused GLP-1 polypeptides, and wherein said fusion protein has GLP-1 activity.
- 23. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP-1 polypeptides are selected from wild type GLP-1 sequences.
- 24. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP-1 polypeptides are selected from GLP-1 fragment sequences.
- 25. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP-1 polypeptides are selected from GLP-1 variant sequences.
- 26. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP-1 polypeptides are selected from at least one wild type GLP-1 sequence fused to at least one GLP-1 fragment sequence.

- 27. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP-1 polypeptides are selected from at least one wild type GLP-1 sequence fused to at least one GLP-1 variant sequence.
- 28. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP-1 polypeptides are selected from at least one GLP-1 fragment sequence fused to at least one GLP-1 variant sequence.
- 29. (Previously presented) The albumin fusion protein of claim 22, wherein said GLP-1 fragments or GLP-1 variants are selected from:
 - a. GLP-1(9-36);
 - b. GLP-1(7-36);
 - c. GLP-1(7-36(A8G)); and
 - d. GLP-1(7-36(A8S)).
- 30. (Previously presented) The albumin fusion protein of claim 29, wherein said GLP-1 fragments or GLP-1 variants are selected from two tandemly oriented GLP-1(7-36(A8G)).
- 31. (Previously presented) The albumin fusion protein of claim 30, wherein said two tandemly oriented GLP-1(7-36(A8G)) are fused at the N-terminus to albumin.
- 32. (Previously presented) The albumin fusion protein of claim 30, wherein said two tandemly oriented GLP-1(7-36(A8G)) are fused at the C-terminus to albumin.
- 33. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP -1 polypeptides are fused at the N-terminus to albumin.
- 34. (Previously presented) The albumin fusion protein of claim 22, wherein said tandemly oriented GLP -1 polypeptides are fused at the C-terminus to albumin.

35. (Previously presented) The albumin fusion protein of claim 22, produced from a host cell comprising a construct which expresses said albumin fusion protein, wherein said construct is selected from:

- a. 2900;
- b. 2964;
- c. 2803;
- d. 2804;
- e. 2945;
- f. 2982;
- g. 3070;
- h. 3027;
- i. 3028;
- j. 3045;
- k. 3046;
- I. 3069;
- m. 3071;
- n. 3072;
- o. 3085;
- p. 3086;
- q. 3087;
- r. 3309; and
- s. 2904.

- 36. (Previously presented) The albumin fusion protein of claim 22, which is non-glycosylated.
- 37. (Previously presented) The albumin fusion protein of claim 22, which is expressed in yeast.
- 38. (Previously presented) The albumin fusion protein of claim 37, wherein said yeast is a S. cerevisiae.
- 39. (Previously presented) The albumin fusion protein of claim 37, wherein said yeast is glycosylation deficient.
- 40. (Previously presented) The albumin fusion protein of claim 37, wherein said yeast is glycosylation and protease deficient.
- 41. (Previously presented) The albumin fusion protein of claim 22, which is expressed by a mammalian cell.
- 42. (Previously presented) The albumin fusion protein of claim 41, wherein said mammalian cell is a CHO cell.
- 43. (Previously presented) The albumin fusion protein of claim 22, wherein the albumin fusion protein further comprises a secretion leader sequence.
- 44. (Previously presented) A composition comprising the albumin fusion protein of claim 22 and a pharmaceutically acceptable carrier.
- 45. (Currently amended) A method of treating a patient with diabetes, comprising administering an effective amount of the albumin fusion protein of claim 22. any one of claims 22-43 or the composition of claim 44.
- 46. (New) An albumin fusion protein comprising two or more tandemly oriented GLP-1 polypeptides fused to albumin comprising the amino acid sequence of

SEQ ID NO:1038, wherein said GLP-1 polypeptides comprise at least one amino acid sequence selected from:

- (a) amino acids 1 to 30 of SEQ ID NO:1808;
- (b) amino acids 100 to 127 of SEQ ID NO:1249; and
- (c) amino acids 98 to 127 of SEQ ID NO:1250;wherein said fusion protein has GLP-1 activity.
- 47. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides comprise at least one amino acid sequence of (a).
- 48. (New) The albumin fusion protein of claim 47, wherein said GLP-1 polypeptides comprise at least two amino acid sequences of (a).
- 49. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides comprise at least one amino acid sequence of (b).
- 50. (New) The albumin fusion protein of claim 49, wherein said GLP-1 polypeptides comprise at least two amino acid sequences of (b).
- 51. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides comprise at least one amino acid sequence of (c).
- 52. (New) The albumin fusion protein of claim 51, wherein said GLP-1 polypeptides comprise at least two amino acid sequences of (c).
- 53. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides comprise at least one amino acid sequence of (a) and at least one amino sequence of (b).

- 54. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides comprise at least one amino acid sequence of (b) and at least one amino acid sequence of (c).
- 55. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides comprise at least one amino acid sequence of (a) and at least one amino acid sequence of (c).
- 56. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides are fused at the N-terminus to albumin.
- 57. (New) The albumin fusion protein of claim 46, wherein said GLP-1 polypeptides are fused at the C-terminus to albumin.
 - 58. (New) The albumin fusion protein of claim 46, which is non-glycosylated.
 - 59. (New) The albumin fusion protein of claim 46, which is expressed in yeast.
- 60. (New) The albumin fusion protein of claim 59, wherein said yeast is *S. cerevisiae*.
- 61. (New) The albumin fusion protein of claim 59, wherein said yeast is glycosylation deficient.
- 62. (New) The albumin fusion protein of claim 59, wherein said yeast is glycosylation and protease deficient.
- 63. (New) The albumin fusion protein of claim 46, wherein the albumin fusion protein further comprises a secretion leader sequence.
- 64. (New) A composition comprising the albumin fusion protein of claim 46 and a pharmaceutically acceptable carrier.

65. (New) A method of treating a patient with diabetes, comprising administering an effective amount of the albumin fusion protein of claim 46.

- 66. (New) An albumin fusion protein comprising two or more tandemly oriented GLP-1 polypeptides fused to human serum albumin, wherein said albumin fusion protein comprises an amino acid sequence selected from:
 - (a) amino acids 25 to 669 of SEQ ID NO:1231;
 - (b) amino acids 25 to 669 of SEQ ID NO:1232;
 - (c) amino acids 25 to 669 of SEQ ID NO:1233;
 - (d) amino acids 25 to 667 of SEQ ID NO:1234;
 - (e) amino acids 25 to 669 of SEQ ID NO:1235;
 - (f) amino acids 25 to 669 of SEQ ID NO:1236;
 - (g) amino acids 25 to 667 of SEQ ID NO:1237;
 - (h) amino acids 30 to 674 of SEQ ID NO:1280;
 - (i) amino acids 20 to 664 of SEQ ID NO:1607;
 - (i) amino acids 20 to 664 of SEQ ID NO:1608;
 - (k) amino acids 19 to 663 of SEQ ID NO:1609;
 - (I) amino acids 19 to 663 of SEQ ID NO:1610;
 - (m) amino acids 24 to 668 of SEQ ID NO:1621;
 - (n) amino acids 86 to 730 of SEQ ID NO:1622;
 - (o) amino acids 18 to 662 of SEQ ID NO:1623;
 - (p) amino acids 86 to 730 of SEQ ID NO:1624;
 - (q) amino acids 24 to 668 of SEQ ID NO:1625;
 - (r) amino acids 18 to 662 of SEQ ID NO:1626; and

- (s) amino acids 30 to 673 of SEQ ID NO:2170; and wherein said fusion protein has GLP-1 activity.
- 67. (New) The albumin fusion protein of claim 66, wherein said albumin fusion protein comprises the amino acid sequence of (h).
- 68. (New) The albumin fusion protein of claim 66, wherein said albumin fusion protein further comprises a secretion leader sequence.
 - 69. (New) The albumin fusion protein of claim 66, which is glycosylated.
 - 70. (New) The albumin fusion protein of claim 66, which is expressed in yeast.
- 71. (New) The albumin fusion protein of claim 70, wherein said yeast is S. cerevisiae.
- 72. (New) The albumin fusion protein of claim 70, wherein said yeast is glycosylation deficient.
- 73. (New) The albumin fusion protein of claim 70, wherein said yeast is glycosylation and protease deficient.
- 74. (New) A composition comprising the albumin fusion protein of claim 66 and a pharmaceutically acceptable carrier.
- 75. (New) A method of treating a patient with diabetes, comprising administering an effective amount of the albumin fusion protein of claim 66.
- 76. (New) An albumin fusion protein comprising two or more tandemly oriented GLP-1 polypeptides fused to albumin, wherein said fusion protein is produced from a host cell comprising the amino acid sequence of the 3070 construct contained in ATCC Deposit No. PTA-4671.

77. (New) A composition comprising the albumin fusion protein of claim 76 and a pharmaceutically acceptable carrier.

78. (New) A method of treating a patient with diabetes, comprising administering an effective amount of the albumin fusion protein of claim 76.